

**A.2.B.10.15 Answer to Problem 15:**

Which of the following are equivalent to  $3^{-2}$ ? Use properties of exponents to explain your reasoning.

1.  $\frac{1}{3^2}$

2.  $2^{-3}$

3.  $-9$

4.  $\frac{1}{9}$

5.  $-3^2$

6.  $3^2 \cdot 3^{-5}$

7.  $\frac{3^3}{3^5}$